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Ultrasonic homogenizer VP-050N

Automatic tuning and easy operation. Various operation modes according to the condition of samples. Small hand-held type is suitable for small-volume samples. For disruption of E. coli, etc. after expression of protein.



Stepped Micro Tip (Optional)

Automatic tuning and Operation mode

The automatic tuning before use is completed in about 5 seconds just by pressing the button. Possible for Timer operation and Program interval operation. Equipped with PWM operation mode that automatically adjusts the output according to the viscosity change of the sample. It is also equipped with POW operation mode that performs stable oscillation when the sample viscosity and temp. changes are small.

Model	VP-050N
High frequency output	Maximum 50 W
Transducer normal output	10 to 40 W
Oscillation frequency range	19.5 to 20.5 kHz
Turning	Automatically
Operation mode	PWM operation: Automatic output adjustment according to viscosity change of sample POW operation: Stable oscillation when change in viscosity or temp are small
Other functions	Timer operation (1 sec to 120 min) Programmed interval operation (ON: 3 to 60 sec, OFF: 1 to 60 sec)
Display	Real time output value %, Output value setting %, Output value when oscillation start (%), Oscillation frequency
Configuration	Main unit, Converter (Horn/Oscillation switch integrated)
Oscillation switch	Equipped in both Main unit and Converter (Optional foot switch can be used)
Dimensions (W×D×H)	122 × 288 × 283 mm
Weight	Approx. 4.5 kg
Power supply	AC100V/1A (Need a step-down transformer)

Optional step type Micro Tip required for use.
The chips for the previous model VP-5S cannot be used.
The chips for this model can be used in the previous model VP-5S.
The chips for this model cannot be used in the previous model VP-5S.

Dimensions



Features

- Handy type for small volume. The throughput is 0.1 to 10 mL
- Easy tuning completed in about 5 seconds
- Auto power operation to adjust output automatically during use

Applications

- Disruption and Solubilization of E. coli where protein is expressed
- Random fragmentation of Genomic DNA
- Homogenization and Emulsification of samples

Sonication

The vibration of the tip causes a cavitation of innumerable bubbles in the liquid to disrupt the object. The advantage is that the object can be disrupted uniformly. On the other hand, Intermittent operation or Ice-cooling of the sample is recommended as the sample may generate heat.



Optional accessories



Product Name/Model	Remarks
Ф2mm Stepped Micro Tip VP-MS02	Throughput 0.1 to 10 mL
Ф3mm Stepped Micro Tip VP-MS03	Throughput 0.25 to 10 mL
Ф6mm Stepped Micro Tip VP-MS06	Throughput 2 to 10 mL
Foot switch VP-FS01	Compatible with VP-300N

(')Microtubes (0.5/1.5/2.0 mL) can be used with Φ2 mm and Φ3 mm. •Each material of the Chip is Titanium. Replace the Chips if necessary as it is a consumable. •Compatible with previous models (VP-5S/15S/30S/60S). Confirm that the Chips can be used in the instruction manual.

Aluminum block Bath Mini-size Bath

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ization Ce tor Cc emperature Cc

Freeze dryer

Constant-tempera aratus water circulating e for system [Chiller]

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